MONTHLY BULLETIN

OF

# THE OBSERVATORY

## AMERICAN UNIVERSITY OF BEIRUT

FORMERLY

## SYRIAN PROTESTANT COLLEGE

BEIRUT, SYRIA

LAT. 33° 54′ 22″ N.

LONG. E. FROM GREENWICH 35° 28′ 10″

QC
990
L4
M6
1923

LIBRARY
MAY 25 1923
Weather Bureau

JANUARY 1923

J. A. BROWN, DIRECTOR

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# JANUARY 1923

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to 0°C. Sea level and 45° Latitude | | | | Thermometer Cent. (Corrected) | | | Bright Sunshine hrs. | Rain m.m. |
|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 2:30 | 8:30 | mean | Max. | Min. | Min. on grass | | |
| 1 | 764.2 | 763.1 | 764.3 | 763.9 | 16.3 | 11.2 | 8.3 | | 3.05 |
| 2 | 5.6 | 5.0 | 5.6 | 5.4 | 16.7 | 11.1 | 8.4 | | 8.13 |
| 3 | 5.0 | 4.4 | 3.7 | 4.4 | 18.1 | 12.4 | 8.3 | | |
| 4 | 2.6 | 1.0 | 2.2 | 1.9 | 18.4 | 13.3 | 7.6 | | |
| 5 | 4.4 | 4.6 | 6.8 | 5.3 | 18.9 | 14.7 | 10.0 | | |
| 6 | 7.3 | 6.1 | 6.3 | 6.6 | 17.7 | 12.7 | 8.9 | | |
| 7 | 5.6 | 4.6 | 5.2 | 5.1 | 17.3 | 12.2 | 8.2 | | |
| 8 | 5.5 | 4.5 | 4.9 | 5.0 | 17.3 | 9.1 | 11.9 | | 7.11 |
| 9 | 5.5 | 4.9 | 5.2 | 5.2 | 17.7 | 12.4 | 9.0 | | |
| 10 | 3.0 | 0.3 | 59.5 | 0.9 | 17.9 | 12.1 | 7.4 | | |
| 11 | 59.0 | 59.0 | 9.9 | 59.3 | 18.5 | 14.1 | 11.0 | | 1.78 |
| 12 | 61.7 | 62.1 | 64.1 | 62.6 | 17.6 | 11.1 | 9.5 | | 38.09 |
| 13 | 7.7 | 7.7 | 8.0 | 7.9 | 16.9 | 11.7 | 9.1 | | 12.19 |
| 14 | 7.8 | 6.1 | 5.6 | 6.5 | 16.8 | 11.6 | 8.8 | | |
| 15 | 4.1 | 2.3 | 59.9 | 2.1 | 16.7 | 11.8 | 8.4 | | 2.29 |
| 16 | 56.3 | 55.5 | 5.7 | 55.8 | 13.9 | 10.6 | 8.8 | | 48.32 |
| 17 | 8.8 | 61.3 | 62.7 | 60.9 | 15.5 | 8.8 | 5.9 | | 11.04 |
| 18 | 64.8 | 4.1 | 4.4 | 4.4 | 15.8 | 10.2 | 6.7 | | 4.60 |
| 19 | 0.2 | 57.4 | 59.8 | 59.1 | 18.9 | 10.2 | 10.5 | | 9.65 |
| 20 | 2.0 | 60.9 | 61.1 | 61.3 | 13.4 | 9.3 | 9.1 | | 3.43 |
| 21 | 2.6 | 3.4 | 5.7 | 3.9 | 14.0 | 9.8 | 6.7 | | 3.31 |
| 22 | 8.1 | 7.2 | 7.2 | 7.5 | 14.9 | 9.6 | 6.6 | | 4.83 |
| 23 | 5.2 | 3.3 | 3.8 | 4.1 | 16.6 | 11.3 | 6.8 | | |
| 24 | 4.1 | 3.8 | 4.2 | 4.0 | 17.3 | 11.9 | 6.1 | | |
| 25 | 4.2 | 3.8 | 5.6 | 4.5 | 16.3 | 12.8 | 8.0 | | |
| 26 | 7.6 | 7.3 | 8.9 | 7.9 | 15.5 | 10.4 | 7.3 | | |
| 27 | 8.8 | 7.9 | 7.4 | 8.0 | 16.0 | 10.4 | 4.9 | | |
| 28 | 5.2 | 1.2 | 58.0 | 1.5 | 16.6 | 11.0 | 6.1 | | |
| 29 | 57.9 | 58.2 | 9.5 | 58.5 | 21.2 | 12.6 | 9.9 | | 11.80 |
| 30 | 62.4 | 61.9 | 62.1 | 62.1 | 15.4 | 10.2 | 6.7 | | |
| 31 | 1.6 | 59.0 | 55.9 | 58.8 | 16.6 | 10.1 | 6.5 | | 17.27 |
| | 763.8 | 762.9 | 763.3 | 763.3 | 16.90 | 11.30 | 8.1 | | 186.9 |

BAROMETER

| | | |
|---|---|---|
| Maximum | 768.9 | on 26th |
| Minimum | 755.5 | on 16th |

THERMOMETER

| | | |
|---|---|---|
| Maximum | 21.2 | on 29th |
| Minimum | 8.8 | on 17th |
| Minimum on grass | 4.9 | on 27th |

RAINFALL

Maximum 48.32 mm. on 16th

Number of days with rain 16 thunderstorms 0 fog 0 gale 0

# JANUARY 1923

## METEOROLOGICAL REGISTER

| Date | Dry Bulb Cent. (Corrected) | | | | Wet Bulb Cent. (Corrected) | | | Elasticity of Vapour mm. | | | | Relative Moisture per cent. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 2:30 | 8:30 | mean | 8:30 | 2:30 | 8:30 | 8:30 | 2:30 | 8:30 | mean | 8:30 | 2:30 | 8:30 | mean |
| 1 | 13.9 | 16.3 | 13.2 | 14.5 | 11.0 | 13.3 | 11.3 | 8.2 | 9.8 | 8.9 | 8.9 | 69 | 70 | 79 | 73 |
| 2 | 13.4 | 16.1 | 13.2 | 14.2 | 11.1 | 12.1 | 10.6 | 8.5 | 8.3 | 8.2 | 8.3 | 74 | 61 | 71 | 69 |
| 3 | 14.4 | 17.6 | 14.6 | 15.5 | 11.0 | 12.9 | 10.7 | 8.0 | 8.5 | 7.7 | 8.1 | 65 | 57 | 62 | 61 |
| 4 | 15.4 | 17.9 | 16.7 | 16.7 | 10.3 | 13.6 | 13.7 | 6.9 | 9.2 | 9.9 | 8.7 | 53 | 60 | 70 | 61 |
| 5 | 16.1 | 17.9 | 17.7 | 17.2 | 13.3 | 15.0 | 12.7 | 9.8 | 10.8 | 8.3 | 9.6 | 72 | 71 | 55 | 66 |
| 6 | 14.9 | 17.0 | 16.2 | 16.0 | 11.2 | 13.7 | 12.6 | 7.9 | 9.8 | 8.9 | 8.9 | 63 | 69 | 65 | 66 |
| 7 | 14.4 | 17.0 | 14.4 | 15.3 | 10.7 | 14.6 | 12.2 | 7.7 | 10.8 | 9.3 | 9.3 | 62 | 74 | 76 | 71 |
| 8 | 14.4 | 14.6 | 14.3 | 14.4 | 11.3 | 13.2 | 12.4 | 8.4 | 10.5 | 9.6 | 9.5 | 68 | 85 | 79 | 77 |
| 9 | 14.2 | 16.6 | 13.8 | 14.9 | 11.5 | 12.7 | 11.3 | 8.6 | 8.7 | 8.5 | 8.6 | 72 | 62 | 72 | 69 |
| 10 | 14.6 | 17.1 | 16.6 | 16.1 | 10.8 | 13.0 | 13.9 | 7.7 | 8.9 | 10.3 | 8.9 | 62 | 62 | 74 | 66 |
| 11 | 17.3 | 17.7 | 13.8 | 16.3 | 13.8 | 13.1 | 11.1 | 9.7 | 8.7 | 8.3 | 8.9 | 66 | 58 | 70 | 65 |
| 12 | 13.9 | 13.4 | 14.8 | 14.0 | 12.7 | 12.9 | 12.0 | 10.2 | 10.8 | 8.9 | 10.0 | 86 | 94 | 70 | 83 |
| 13 | 13.6 | 16.6 | 13.3 | 14.2 | 12.2 | 13.4 | 11.4 | 9.7 | 9.6 | 9.0 | 9.4 | 84 | 68 | 79 | 77 |
| 14 | 14.9 | 16.1 | 13.4 | 14.8 | 12.3 | 12.9 | 11.3 | 9.2 | 9.3 | 8.8 | 9.1 | 72 | 69 | 75 | 72 |
| 15 | 13.6 | 15.9 | 13.8 | 14.3 | 10.7 | 13.4 | 11.7 | 8.1 | 10.0 | 8.9 | 9.0 | 69 | 74 | 76 | 73 |
| 16 | 12.8 | 10.2 | 10.5 | 11.2 | 11.3 | 9.5 | 9.3 | 9.1 | 8.5 | 8.1 | 8.6 | 83 | 92 | 86 | 87 |
| 17 | 14.0 | 15.2 | 13.8 | 14.3 | 9.4 | 10.5 | 9.8 | 6.6 | 7.2 | 7.1 | 7.0 | 56 | 56 | 61 | 58 |
| 18 | 12.4 | 15.2 | 13.6 | 13.7 | 10.9 | 12.2 | 10.8 | 8.9 | 8.6 | 8.2 | 8.6 | 82 | 65 | 71 | 73 |
| 19 | 15.1 | 17.3 | 11.8 | 14.7 | 11.6 | 13.1 | 11.2 | 8.3 | 8.9 | 9.5 | 8.9 | 65 | 60 | 92 | 73 |
| 20 | 9.9 | 13.1 | 11.9 | 11.6 | 9.3 | 9.9 | 9.8 | 8.4 | 7.5 | 7.8 | 7.9 | 93 | 67 | 76 | 79 |
| 21 | 12.9 | 13.5 | 10.2 | 12.2 | 9.2 | 12.3 | 9.5 | 6.8 | 10.0 | 8.5 | 8.4 | 61 | 86 | 92 | 80 |
| 22 | 12.7 | 14.8 | 13.9 | 13.8 | 10.8 | 11.1 | 11.2 | 8.6 | 7.9 | 8.3 | 8.3 | 78 | 63 | 71 | 71 |
| 23 | 14.5 | 16.3 | 16.0 | 15.6 | 10.1 | 12.1 | 11.6 | 7.0 | 8 2 | 8.0 | 7.7 | 57 | 59 | 59 | 58 |
| 24 | 14.3 | 17.2 | 13.9 | 15.1 | 11.2 | 12.0 | 11.7 | 8.2 | 7.8 | 8.9 | 8.3 | 68 | 53 | 75 | 55 |
| 25 | 15.5 | 15.5 | 14.9 | 15.3 | 12.1 | 11.8 | 11.7 | 8.6 | 9.6 | 8.5 | 8.9 | 66 | 63 | 67 | 65 |
| 26 | 12.8 | 15.4 | 13.3 | 13.8 | 10.5 | 11.6 | 10.7 | 8.2 | 8.3 | 8.3 | 8.3 | 74 | 64 | 72 | 70 |
| 27 | 13.7 | 15.8 | 13.8 | 14.4 | 10.4 | 11.3 | 10.7 | 7.7 | 7.7 | 7.9 | 7.8 | 67 | 58 | 66 | 64 |
| 28 | 14.5 | 16.4 | 15.5 | 15 5 | 10.5 | 12.7 | 12.8 | 7.5 | 8.9 | 9.4 | 8.6 | 61 | 65 | 71 | 66 |
| 29 | 14.8 | 13.3 | 13.6 | 13.9 | 12.3 | 12.4 | 11.7 | 9.2 | 10.1 | 9.1 | 9.5 | 73 | 89 | 78 | 80 |
| 30 | 12.8 | 15.1 | 12.7 | 13.5 | 10.1 | 11.8 | 10.1 | 7.8 | 8.5 | 7.8 | 8.0 | 70 | 66 | 71 | 69 |
| 31 | 14.8 | 15.7 | 13.4 | 14 6 | 11.9 | 14.6 | 12.8 | 8.8 | 11.7 | 10.6 | 10.4 | 70 | 89 | 93 | 84 |
| | 14.1 | 15.7 | 14.0 | 14.6 | 11.1 | 12.5 | 11.4 | 8.3 | 9.1 | 8.7 | 8.7 | 70.0 | 68.7 | 73.4 | 70.7 |

Height of Barometer above sea level : 33.7 meters.

„ „ Thermometers above ground :

Dry and wet 1.55 m.; Max. 1.75 m.; Min. 1.70 m.

Height of Rain Guage : above ground 0.56 m.; above sea level m.

Gravity Correction −0.79mm.

Time of readings according to Standard Time of 30th E. Meridian.

# JANUARY 1923

## METEOROLOGICAL REGISTER

| Date | Clouds. Clear—0 Overcast—10 | | | | Direction and force of Wind 0—10 | | | Wind per day | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 2:30 | 8:30 | mean | 8:30 | 2:30 | 8:30 | Km. | | |
| 1 | 10n | 0 | 3 | 4.3 | 0 | 1 | 0 | 28.0 | calm | |
| 2 | 9cu s | 8cu ci | 7ci cu | 8.0 | 0 | 1 | 1ne | 120.2 | ,, | |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55.5 | ,, | |
| 4 | 0 | 0 | 10cu n | 3.3 | 0 | 0 | 0 | 48.3 | ,, | a few drops |
| 5 | 0 | 8cu n | 2 | 3.3 | 0 | 3 | 0 | 129.3 | v. slight | |
| 6 | 0 | 1s | 0 | 0.3 | 0 | 0 | 0 | 88.2 | ,, | |
| 7 | 0 | 1 | 0 | 0.3 | 0 | 0 | 0 | 35.6 | calm | |
| 8 | 7s | 10n s | 0 | 5.7 | 0 | 0 | 0 | 50.5 | ,, | |
| 9 | 0 | 9cu s | 0 | 3.0 | 0 | 1w | 0 | 157.1 | ,, | |
| 10 | 10n | 10n | 5n | 8.3 | 0 | 0 | 0 | 57.1 | v. slight | |
| 11 | 0 | 8cu n | 9n | 5.7 | 2 | 4 | 2 | 256.4 | slight | |
| 12 | 5cu n | 10n | 10n | 8.3 | 0 | 0 | 2 | 329.0 | ,, | |
| 13 | 10n | 10n | 0 | 6.7 | 0 | 0 | 0 | 231.1 | v. slight | |
| 14 | 3s | 7s | 0 | 3.3 | 0 | 1ne | 0 | 18.0 | calm | |
| 15 | 10n s | 10s n | 9n | 9.7 | 0 | 1 | 1n | 93.0 | v. slight | |
| 16 | 10n | 10n | 8n | 9.3 | 1 | 2s | 2s | 333.8 | rough | hail |
| 17 | 9cu n | 6 | 3n | 6.0 | 5 | 4 | 1 | 584.1 | v. rough | |
| 18 | 10n | 10n | 10n | 10 | 0 | 3 | 0 | 187.2 | v. slight | |
| 19 | 10n | 10n | 10n | 10 | 0 | 4s | 1 | 173.5 | slight | |
| 20 | 10cu n | 10n | 3n | 7.7 | 2s | 1 | 2 | 463.7 | ,, | |
| 21 | 0 | 10n | 9n | 6.3 | 4 | 3 | 0 | 466.8 | rough | |
| 22 | 0 | 0 | 2cu s | 0.7 | 0 | 1n | 2n | 214.3 | calm | |
| 23 | 0 | 0 | 0 | 0 | 1nw | 3n | 2ne | 322.0 | v. slight | |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 365.6 | calm | |
| 25 | 10cu s | 9cu s | 0 | 6.3 | 3n | 3n | 2n | 129.2 | v. slight | |
| 26 | 0 | 0 | 0 | 0 | 0 | 2n | 0 | 277.6 | calm | |
| 27 | 0 | 0 | 2s | 0.7 | 0 | 0 | 0 | 298.0 | ,, | |
| 28 | 0 | 10cu s | 10cu s | 6.7 | 0 | 0 | 0 | 48.0 | ,, | |
| 29 | 7n | 10n | 9cu n | 8.7 | 3 | 2 | 1n | 336.3 | slight | |
| 30 | 0 | 0 | 10n | 3.3 | 0 | 0 | 0 | 210.7 | v. slight | |
| 31 | 1 | 10n | 10n | 7.0 | 0 | 1 | 1 | 167.2 | ,, | |
| | | | | 4.6 | | | | 204.5 | | |

### Number of Daily Wind Observations

| Time | N | NE | E | SE | S | SW | W | NW | Calm |
|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 1 | 23 |
| 2:30 | 4 | 1 | 0 | 0 | 2 | 11 | 1 | 0 | 12 |
| 8:30 | 4 | 2 | 0 | 0 | 1 | 6 | 0 | 0 | 18 |
| Totals | 9 | 3 | 0 | 0 | 4 | 22 | 1 | 1 | 53 |

N.B.—Cloud numbers without letters are all cu.
Wind ,, ,, ,, ,, ,, sw.